



NATIONAL TRANSPORTATION SAFETY BOARD
Investigative Hearing

Norfolk Southern Railway general merchandise freight train 32N
derailment with subsequent hazardous material release and fires,
in East Palestine, Ohio, on February 3, 2023

GROUP	D
EXHIBIT	
11	

Agency / Organization

Oxy Vinyls, LP

Title

**Oxy Vinyls Notes of Communications with
Norfolk Southern Railway Contractors**



14555 Dallas Parkway, Suite 400
Dallas, Texas 75254-4300
Phone 972.404.3800

April 28, 2023

VIA NTSB FILE MANAGER

Marc Dougherty
Hazardous Materials Accident Investigator (RPH-20)
National Transportation Safety Board
490 L'Enfant Plaza East, SW
Washington, DC 20594

[REDACTED]

**RE: Norfolk Southern Train Derailment, East Palestine, Ohio
(NTSB Investigation No. RRD23MR005)**

Dear Mr. Dougherty:

We are writing on behalf of Oxy Vinyls, L.P. ("Oxy Vinyls" or "Company") in connection with the above-referenced investigation. We are responding to the information request by the National Transportation Safety Board ("NTSB"), which was received via electronic correspondence on March 20, 2023.

As an initial matter, Oxy Vinyls notes that the recipients of this information have signed NTSB's Certification of Party Representative agreement, which requires signatories to take all reasonable steps to ensure that the employees and participants of the participating organization fully comply with the requirements contained therein. These requirements include, but are not limited to, the provisions of 49 C.F.R. § 831.63, which limits the dissemination of investigative information related to this investigation. Pursuant to this provision, prior to the NTSB's public release of information, Party Representatives are prohibited from passing information obtained during the investigation to others within the participating organization without first obtaining the approval of the Investigator-in-Charge. Additionally, as stated in the agreement, Party Representatives shall not participate in the investigation with the purpose of preparing for litigation.

If any Party Representative receives a request for information provided by Oxy Vinyls or is considering broader dissemination or public disclosure of this information, please immediately contact Oxy Vinyls.

NTSB Informal Information Request Dated March 20, 2023: Notes of any conversations or meetings with Norfolk Southern and its contractors prior (leading up) to the vent and burn.

RESPONSE: The Company provides the notes taken by the following individuals:

- Tim Kelly, Manager of Safety and Emergency Response. This information is Bates-Labeled OXY-NTSB-000166 through OXY-NTSB-000175.



Marc Dougherty
April 28, 2023
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- Joey Smith, Director of Safety and Industrial Hygiene. This information is Bates-Labeled OXY-NTSB-000176 through OXY-NTSB-000180.
- Steve Smith, Technical Manager, La Porte Plant. This information is Bates-Labeled OXY-NTSB-000181 through OXY-NTSB-000188.
- Christi Young, Director of Supply Chain. This information is Bates-Labeled OXY-NTSB-000189 through OXY-NTSB-000202.

Portions of the notes include materials subject to legal privileges. These portions have been redacted. Additionally, portions of the notes include personal identifying information (*e.g.*, mobile telephone numbers and email addresses). These portions have also been redacted.

The Company continues its efforts to identify notes responsive to this request. The Company will supplement this production if additional notes are identified.

The Company reserves its rights related to the inadvertent disclosure of attorney-client information or work-product information included in this production. Under Federal Rule of Evidence 502, the disclosure of such information does not operate as a waiver in a federal or state proceeding if: (1) the disclosure is inadvertent, (2) the Company took reasonable steps to prevent the disclosure, and (3) the Company took reasonable steps to rectify the error. FED. R. EVID. 502(b). "The rule applies to inadvertent disclosures made to a federal office or agency, including but not limited to an office or agency that is acting in the course of its regulatory, investigative or enforcement authority." Explanatory Notes, Rule 502, Judicial Conference Advisory Committee on Evidence Rules, revised Nov. 28, 2007. Please immediately notify me if you discover information in this production that suggests the document is subject to the attorney-client privilege or protected by the work-product doctrine.

Sincerely,

A black rectangular redaction box covers the signature of Karenanne Stegmann. The redaction is complete, obscuring all text and handwriting beneath it.

Karenanne Stegmann

Enclosures

cc: Ruben Payan

6-9 m-Jh
SW

Friday
night
2100 2-3-23

50 car derailment with Fire (140 Car Train)

1500-2000 Evacuated (1 mile radius)

Cars shipped from LaPorte going to Petricktown

David Patten - ~~South~~ Norfolk Southern Hazmat

Press Conf @ 1:00 P.M. (12 our time)

EPA on site

NTSB on the way to investigate

Weather now - 19° Wind SSW @ 9

Sat

2-4-23

✓ Carl Bronold - [REDACTED]

SSR

✓ Christi Young [REDACTED]

✓ Joey Smith - [REDACTED]

✓ Chris Krishna [REDACTED]

✓ Pat Webb - [REDACTED]

Celina Cardenas - [REDACTED]

John Tummons - [REDACTED]

Special
situations
Room
Items

* ~~update CERP notification~~

* Tell IT about Phone Line in SSR 6042,6

* Door is Squeeky

* Do we need

HDMI Cord

Phosgen Badges

12:40 News Conf

NO Fly Zone establish

discolored ~~water~~ water due to Fire water

mention Vinyl chloride

NS opening Family Center

NS Staff stay @ Firehouse

EPA's (SPSI) doing Air monitoring - NO Readings

Some runoff into the streams

68 interees from 3 states (Mutual Aid)

Zero injuries

Still some fire

Next news Conf - Tomorrow @ noon (11:00 here)

Drew

- are our cars upright?

- are we going to transload any of them

2:00PM 3 cars still being from Protective Housing

Ackralato Spill

1:00 Central for Next Car

~~* 8 or 9 tonight call to update~~

~~Neil, Eric~~

- Tell Drew
- We will send RC drawings
- We will send Tech Support (ASAP - tomorrow)
- * - Call Drew @ 7:00 P.M.
- Tell Drew all media inquiries go to Norfolk Southern

Wood

4:50

NS Spokemen - Robert + [REDACTED]

3 - out of 5 are still on fire

1 stopped for over an hour, then started back up

Nothing being done now - Backed out and letting it burn

Dave Schoendorfer -

50 out of 140 car train

- The derailment occurred @ 9:00 P.M. ~~at~~ last night
- We received Chemtrec Report @ 8:22 A.M. this morning
- I called the Hazmat Specialist (Norfolk Southern) listed on the Chemtrec Report and he gave me the information that was sent out on the CERP Report.
- We set up the Special Situations Room and started monitoring news situation
- At 10:39 this morning, I received an email from the Chlorine Inst. She had ~~gotten to~~ spoken to Drew McCarty with Specialized Professional Services Inc (SPSI)
 - ↳ Reported 3 of 5 cars are burning from the protective housing, 1 is getting flames out the PRD.
The plan is to Hot Top and liquid flare them
- At 2:00 P.M. - Drew gave an update - no change. Waiting on flames to burn out around the cars to make entry to do an assessment
- At 4:50 P.M. Norfolk Southern gave us an update that the 3 cars are still burning and they ~~have~~ ~~are~~ remain backed out waiting on the flame to reduce
- Drew McCarty - 7:00 P.M.

Drew & Isobutylene car - our car got pressure
ready 60 PSI.

PRD is getting badly - Fear is the car will
come apart

11 hazmat cars

11 - what hazmat cars - Isobutylene.

Drew
Ryan } SPSI
Mice }

John Simpson - N.S

Vent & Burn

Next call 7:00 A.M.

75 Main Street - Fire Station

How far away is the Fire Station from the scene (over a
mile)

Rules of engagement for our team

Set up call with our team for updates

Include Eric and Calina

* Steve Smith } update call Wade, Carl
Strike Team - Justin Cox } John Tummons, me, Trey
SMC from La Porte - } Chris, Christi
Alex Torres

37,000 Ft³/min

Sun

2-5-23

0700

update OxyTeam - SPSI & SRS

Chip, Terry } SRS
pay

Live stream back to Command Post

By 5:30 the morning the cars subsided a lot

The bad car has a very lazy fire

The other car that was in the fire has lazy fire too

The third car (west) lazy fire

* "Fear is the polymerization has plugged valve" ?? (Why??)

30 sec every 2 min for ~ 15 Hrs (9:00 P.M. until noon)

10,000 Ft³/min for 70 min

724-982-6571 - Drew

Stabilizer

Sun
1706

Oxy Team update

2-5-23

Chris Keran?

Carl, mat, celina, chris krishna, christi, Pat, J.B. Steve Smith
Todd Behne, Dan, Joey, Tummons, Neil, Paul

- Box car had mech issue 4 miles before derail

Our cars were #20-30 in the train (150 car train / 50 derailed)

Justin - SPSI moving forward to do vent and burn tomorrow
all at once (TILX...4045) ↔ will derail and move it off
side

vent & burn - 1st charge in vapor space, 2nd in liquid

6" hole - Drain product to ditch/pond to burn it
oxy car 080

X - Vapor Cloud Explosion is our concern with vent & burn

8:0657 - (7CST)

KolacLe

Mon

Oxy Team Update

2-6-23

0700

Christi, Dan, Todd, Mat, Joey, Karenanne, Chris Keran
Charles Tate, Chris Krishna, Paul, Neil

Planning on doing Vent & Burn - (Chip Day - Terry Rockwell)

Wind out of NW - Air modeling being done by CTEIT & EPA
National Guard is in town - Forced EVAC

Will do all the cars at one time - The least damaged car
will be included due to Crack Bolster

Press Conf room EST (

ABC Channel 4
Pittsburg

New Conf.

EVAC 1 mi by 2 mi Area

Controlled Release @ 3:30 EST (2:30 CST)

2 full cars - 3 1/2 or less

40CFR 172.102 (c)(2)

Stabilized below 200 PPM O₂

- 1) TILX 402025 - has been moved - 2-7.
- 2) OCPX 80235
- 3) OCPX 80179
- 4) GATX 95098

Scott Dunc

The western most car had Polymer being out

mon

Oxy Team meeting

~3:35

2-6-23

- After Controlled Vent & Burn (3:48 P.M. CST)

Chip said polymer came out the vapor space (~150 yards away)

Predicted Burn time = 2 hrs - This could be much longer

5 cars = 125,000 gallons = Pit = 150,000 gallons

SPSI has 2 submersible pumps to spray structures & new tanks

Next call after 9:00 EST

Wuka, Dan, Timmons

Oxy Team meeting (Neil, Kerouane, Steve, Christi, Celso) 2-7-23

- at Ground Floor side (Fire out ~1900-1930)

- They started moving cars

- No visible PVC on ground - they want to remove the pressure plate

- Move RC to a staging area

NS I.H - NO₂ Reading - } below exp (2 ppm VOC)
- Particulate - } limits

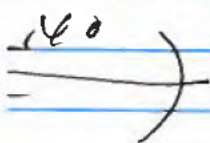
May need to consider revising the SDS on phosgen

SRS said they saw cracking on the shell

When will they lift the ~~the~~ evacuation order? Could be today but not sure

Put picture on Team site

Next call same time (5:00)



Tue

Oxy Team meeting

5:00 2-7

They want to South side of our car and NO polymer on the ground
* Who is the Safety Officer on scene

· Site Safety Plan?

Next Call 3:00PM CST

Wed

3:00 P.M CST

2-8-23

NTSB wants all PRD's from all 5 cars

4:19- Press Conf.

- The Evac order has been lifted (Fire Chief)
- US EPA - Air Condition is back to normal
- Ohio EPA - Water has been compromised - It was minimized but some fish have been killed
- N.S. Scott Douch - All cars have been cleared
Some crossings will be closed to move cars
Assistance Center will remain open - Gave out 2 numbers
one for people, one for bussiness

- ~~Mayor~~ Mayor - Thanked the local Vol Fire men

* "Very few injuries from the recovery side"

Eric Brewer - Beaver Co Commissioner - Pennsylvania

Next Call - 4:00 EST - 3:00 CST

P.1

Saturday - Feb 4th

- 5 VC cars
- 3 burning from protective housing
- 1 getting flame out of relief device
- 1 heat impingement
- 1 ^{no direct} heat impingement
- Expect reactivity per SPS1
- CTEH monitoring
- SPS1: NTSB on scene
- Other cars involved
 - Acetate spilled
 - Glycol cars
 - Lubricating cars
 - Fuel oil cars
 - Benzene residue cars

- News Coverage

2 - KDKA

11

27 - WKBN

4 - Pittsburgh

21 - WFMY

Scioto Post → Facebook

P. 2

Press Conference

• Mayor

- 9:30 pm Friday, State of Emergency
- Heavy smoke, entanglement of cars, fire lessened 2 bit.

• Fire Chief (Dzabick)

- EPA, NS, Responders, NTSB
- VOC car is current concern
- Zero injuries

SPSI

• Vinyl Acetate odor

- Not a lazy fire, calmed down
- Talking w/ command
- Want to look at cars - one not involved
- Looking at hot tapping ~~rip~~ ripples - Liquid to pit
- Nitrogen sweep to ease it ↑ Liquid flaring
- Non-detect VOC in air

• Current activities

- Mobilizing to hot tap to liquid flare to burn pit
- Trying to look at at least 2 cars (pressure)
- No active attack currently @ 4:50
- Car stopped for about an hour then restarted at around 4:30

p. 3

- All Stop

- 2 others burning from housing / cars in hot pool fire all night

- Vent: burn

- 1 car 60psi

- 1 heat damage, but not leaking

- 3 burning from protective housing; 1 of those actively relieving

- Conditions deteriorating

- Ground fires have subsided

- Propylene glycol next to our car is burning

- Concern: polymerization? → Vent: burn

• 1 mile evacuation

- Next update at 7am CT

- Sending Steve Smith, Justin Cox; LePute SMC (Towers)

11:30 Live stream video to command post

5:30 Subsided

7:45 Very small lazy fire in housing (11 o'clock)

Unknown tank car damage

- Options → Liquid flames

Vent: burn

p. 4

Press Conf NTSB

- 2 videos, potential mechanical issue on 2 12l car 2x12
- Alarm from 2 wayside defect detector indicating 2 mechanical issue.
- Identified point of derailment
- Asking for final location of where the chemicals that were on fire were going.

Sunday - Feb 5th Evening

- SPSI met w/ EPA: incident command/vent: burn
- East most TILX - 60th rerail: take offsite

Monday - Feb 6th

- Planning 2 vent: burn - moon or later
- Expressed concerns; they listened
- Pellet cars still on fire
- No back up plan
- They have foam: water 2/2400
- Wind off of N/W
- EPA & CTEN doing air modeling
- National Guard there now (basically 2 forced entry)
- massive amount of people: equipment

P.5

- Cans are prepped
- Install charges
- Temp dropped & held steady 130°F
- NTSB would not invite V1 or C1 to participate in investigation

- Concerns w/ integrity of values
- Of polymerization, then concerns w/ hot tapping plus longer exposure to individuals
- Communicated the characteristics of vinyl; of our concerns.

Press Conference

- Ohio National Guard → Defense Department
- Evac 1 mile by 2 mile
- Controlled release at 3:30ct

125,294 gal
TOTAL

US gal
Lic Capacity

2/15/23

25,170 gal

TILX 402025 -

Retained + taken off site
Leak from mast / 40 # @ 5:00 PM
+ 12:30 PM today

60-85°F
or shell
24,875 gal

OCRX 080235 - serious heat affected TIC from
pool fire - don't believe leaked
is mystery as to why
- pressure compromised

Surge heat
Impingement
12-16 hrs

24,889 gal

OCRX 080179 -

2 min OFF 30 sec on
Heavy pool fire / multiple Reliefs /
long time.
- pool fire settled down + later it went
OFF more forcefully for 70 continuous minutes.
- New leak fire

Position
25-21

25,740 gal

GARY 095098

- on fire from housing for some
duration. Some PFD Activation.
Continues to burn now.

Position 58
West

24,620

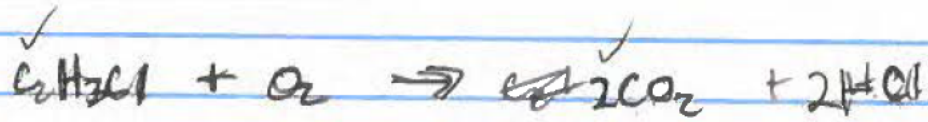
OCRX 080370

- Fire from housing from time of
deployment until 08:00 this morning.
- Pool fire for ~12 hrs, burned out
year morning
- hopper car next to it has fire

2014 @
130°F

torus jacket
on opposite side
135 to touch
+ 31 man.

27/5/23



Increase of shows up ric on polymerization



5 Rail car E -> W -
↓

PSV @ 247.5

majority of damage

(Priority)

~~GATE~~ GATE

~~GATE~~ 225

midland 34225

TILX 247.5

midland 37247

OCP# 80179 @ 277.5

OCP# 80235 @ 247.5

OCP# 277.5

2/15/23

- * - GATV contact *
- Vapor cloud explosion
- Rational Re. This?

SPSE

Risks

- top will have ignition source
- Will have many ground plates

Not obvious to us that it is a polymer b/c it would be runaway rxn

- Vapor side - flame there

- Autofrigeration is why its cool.

- pool; perimeter; wind direction

- PHA

- vs som

- few seconds between changes.

- Explosions of these actions

- characteristics around vcm

Auto Refrig side
 - vessel cracks
 b/c of extreme
 - Time



8:00 AM

- Pure Vinyl. Flash 38% by weight.
- If mixes w/air 53 1/2% by weight (sucked air into stream)



mtg w/ Dates 2/16/23

? Rele when vent is out

SPSE + SRS

- Drew McCarthy, SPSE
- Chip DeJ - SRS
- Terry Beckwith - owner of SRS

- Wind shifted out of NW - ERP / CTRM modeling
- 5 cans to vent / Burn big body boiler
- pool packets black powder
- Flare
- existing burn

- Runoff w/ rain
- Ground Control Remediation the grounds
- modeling for the release.
- 6⁰⁰ PM. February

w/ Robert Wood @ NS (11:05 AM)

- They ^{ERP} are trying to model phenomena release

NS personnel

- Marie Duddle
- Scott Deutch

Get w/ these guys



2/6/23

TJLY 25,170 $\frac{\$}{\Delta}$ US dollars ∇



2/6/23

~16:35

- Atm inversion
- No Atm data yet
- their visual
- Pchm
- tomorrow plans
- JD determine if we can go in

Tuesday May 2/7/23

* Ask if we can get valves tested to see if they had up.

- Evening mtg

- Safety Culture
- ~~Answer~~ ^{older} ~~miss that~~ ^{indicated path}
- NYSB Program

Today - stayed 4 carb. Not sure about west.

- bringing in track ~~sculpture~~ ^{Rumor}

- Evac Unknown - waiting on Oil Health Dept.

Tommy for visual on the ~~area~~ Prot hours at ^{near NYSB, kitchen only.}

- my ~~era~~ plot off.

A) 2 Valve Sets (Next wk); NYS would send off for Forensics

- Decom Procedure
 - Shipping Plan
 - What to examine
 - Visual External
 - Bench test
 - FCG or Valve eye
 - Internal mech operation
 - teardown + inspection
- Next wk target

Do we want to do our own. May need to dismantle. Will need to ship it.

B) Originals or Copy Chem

C) Any other things we should try to collect?

F. Messer or
Inver, Exp

Sms

[REDACTED]

2/8/23

[REDACTED]

per Joel Roberts

Madison, Illinois to Conway, PA

SPSI is out of Pennsylvania

Only one car left venting

All cars will need to be transloaded

Drew McCarty at SPSI – Emergency response contractor. Onsite and

Bleve – Boiling liquid expanding vapor explosion

Celina notified government affairs

As of 4:49pm on 2/4 per NS Hazmat (Robert Wood, David's boss) Dave Schoendorfer is system director of environmental protection systems.

4 of 5 burned at different points through last night and today

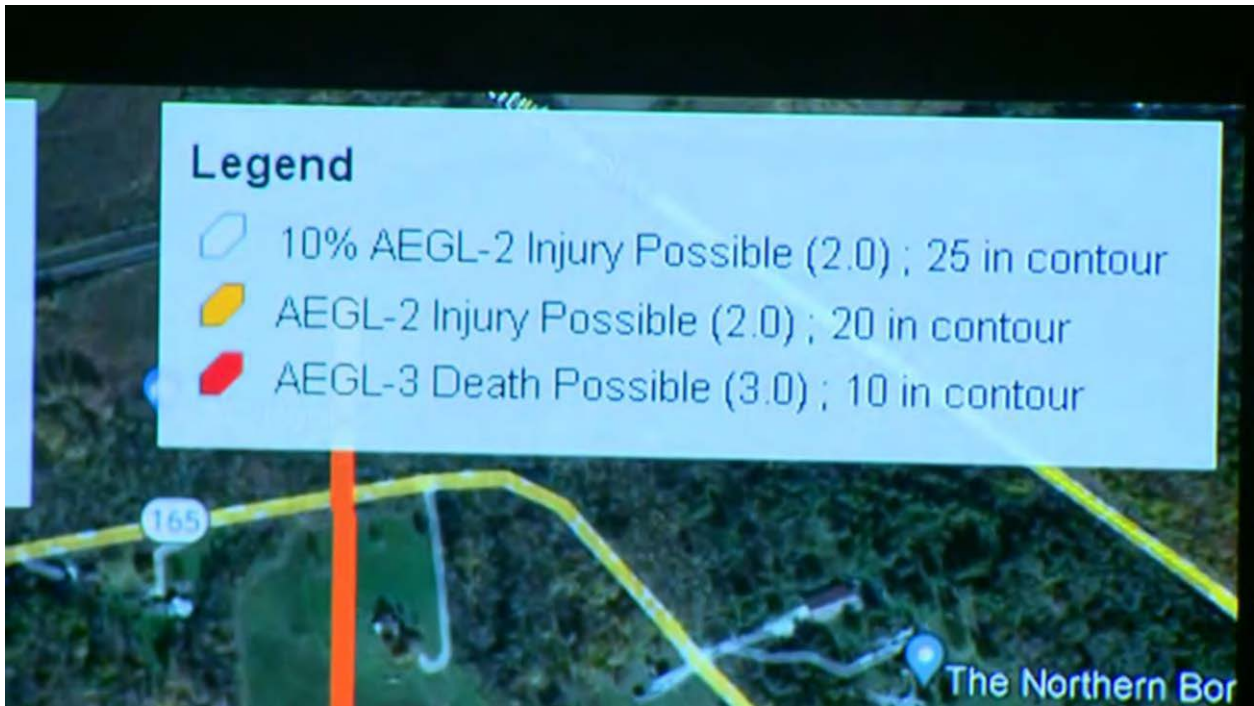
All PRD's had quit venting by 3pm today, but one car just started again. (stopped for over an hour)

Active fire on 3 of the cars

Other cars are burning

Robert Wood: [REDACTED]





[REDACTED]
East Palestine Train Derailment

2/4/23

Burn pit

Grant

320 w Branch St - Shelter

East Palestine
E. Bl City Park community ctr.

NS 31 Park Avenue 8a-8p

Sr/Sr High School

People sneaking around barricade

No fly zone enacted by FAA (seen personal drones)

Keith Dravick - Fire Chief

Vinyl Chloride mentioned - "RC doing its job"

Meeting w/ NTSB at 7pm.

No ^{more} press releases scheduled

Some runoff detected in streams.

"~~Safest~~ Safest option is to let safety features do their job"

Zero structures involved in the incident.

Still heavy smoke

Fire has lessened a little, but def still there.

NS Emerg response arrived w/in 30 mins.

Closest businesses were Leake Oil Company + CeramFab

Thermoplastic wells - What Features do we have

3 burning fl protective housing, 1 flaring

2 hot tap nipples Nitrogen sweep.

CT
1:00 Sun

Liquid to the pit

1 car could be transloaded, Hot tap on 4

butyl acrylate

→ one of these two opened up.

ethyl hexyl acrylate

Diethylene glycol

lube oil

rez benzene

~~propylene~~
propylene

fuel oil

boxcars full of beer cases
plastic pellet cars.

Neil, Eric Moses,

All but TILX has Thermowell.

NTSB Briefing
Speed Limit 45 mph.

~5:30 pm or ~~5:26~~ Drew called Tim.

All stop right now. Tried to go in but car started venting heavy

These cars were in a very hot fire all night long.

11 Hazmat Cars in total involved
isobutyl car is other concern.

6:15 pm Call

SPSI Drew McCarty, Ryan Chacanti, Mike Klein
John Simpson - NS
Scott Gould - NS

5th car 60 PSI @ 17:00 eastern

1 heat damage

3 fire f/ protective housings

1st hour high pressure until 20 mins ago

Plastic Pellets burning on East side not impacting our cars

Propylene Glycol car next to our cars is burning

All packing/o-rings/etc. have been burned

Haven't been able to do thermal scanning
b/c everything is so hot. Plus cars are

insulated + jacketed so can't really tell anyway.
Angry car hasn't had other fires around it for many hours so it is heating on its own.

No water on this Derailment since ~2am Sat morning
Neil requests a model be run on Community risk to make sure evacuation area is sufficient.

DOT Emergency response guide. - recommends 1 mile

Steve Smith, Justin Cox, Alex Torres. going w/ La Porte
Mike Garmon is a good resource.

Have taken up concerns w/ Emergency Mgmt team.

Pull in someone else to perform more analysis to make sure would see other warning signs if expected a bleve, so aren't thinking danger is imminent.

1 mile makes sense.

CTEH has been assigned to do modeling, per Dave
Setting up camera overnight

Sun 2/5/23 7:00am Update call w/ Drew.

Drew, Chip, Terry, Kent Scott

"angry car"

11:30pm started live stream video "11:00 car" "lazy"

5am burning subsided a lot - very small fire in housing

"1:00 car" lazy

"3:00 car" not jetting but still fire on housing -

this is car away from the others.

700 BTU/lb for Polymerization

had car-30 secs every 2 mins midnight Fri to noon Sat.

Tamero, IL

Momentum to vent + burn or momentum to liquid flaring? Need to sit w/ NS + talk about it.

Engage Lessors

STCC Code - is there non-stabilized? no

Relief valve engineers - provide contacts to

John Tummons + Steve Smith

KAS needs update. after tonight's call

Mike Fry Trinity - [REDACTED]

Doug Deaver GATX - [REDACTED]

Ron Rahl

AD McKizzik
Theresa Dietze

Can we tell how low the cars are sitting on the truck
GATX - Pres + CEO are involved. CRS?

Sr VP Engineering John Sbragia - [REDACTED]

Todd Behne: [REDACTED]

FRA Called Cathy Carter asking for

SDS

Anthony Schneider

BOL

Copy me on everything

Scale Ticket

Inspection Sheets

~~COA~~

loading temp + specific gravity

Sun 2/5/23 Noon Press Conference

This morning fire dept went door to door

NS Fact Sheet coming out soon

Keith Drabick - Fire Chief

8 residents at Shelter

James Justice US EPA

Kurt ~~Kohler~~ Ohio EPA
Kollar

State fire chiefs of Ohio
have joined them at
unified demand.
com

East Palestine ~~radio~~ Information

Monitoring for Phosgene + HCL

Asked where the ~~EVCM~~ cars were destined.

NTSB Press briefing 2:30 CST 2/5/23

Drone mapping of scene performed today

Mechanical issues on one RC Axel.

Videos +



Alarm f/ wayside defect detector ^{indicated} mechanical issue
emergency brake activity initiated

ID'd point of derailment

Engineer, conductor, conductor trainee.

Video of potential defect

Question on final destinations.

Last on-scene press briefing

Prelim report 4-6 weeks.

WKbn news?

Internal Call 2/5/23 5pm

Moving forward tonight to set up for vent + burn

tomorrow. Set up to move TILX tonight. - rerail +
move.

TILX Eastern most car.

Directional change on vapor space. first

2nd liquids detonate.

go to pit/ditch^{er} flames nearby to ignite

Westernmost car fire f/ housing until 8 this morning

135° +3° back down to 135°

3 cars bunched - included the angry car.

Aluminum housing melted

NS leading efforts but need approval of fire chief

Concerned about Vapor cloud.

V+B done once before on vcm car 40 years ago
common for propane + LPG cars.

60-85° - 3 cars bunched - pool fire

135° - car #5 no flame - hopper car still burning next to it.

~~Sounds like~~ no fire on Car #5

Neal: what controls do they have in place for water + foam. when they do this

Remote detonate of control center.

Reverse buckling rupture disk

Concerns about vapor cloud all around.

CITEH ran models 4 bleve + vapor explosion
plan to run models for their plan.

Polymerization s/b a runaway transaction, temp would keep rising, not starting to drop

Car #5 ^{has} gash in skin so got temp from that
PSV theoretically couldnt keep up if there really was ~~ps~~ polymerization

Not making decision for them, but educate them about risk of vapor cloud.

Paul wondering why not put charge on top and burn off vent rather than vapor.

2/6/23 7:30 am internal call

DCPX Cars are Grey

Plan to do vent + burn

drawn to dammed up creek.

Someone indicated they have foam, but don't have a way to get close enough.

Wind fl NW - toward potentially populated areas.

Wait guard is there.

"Multiple explosions + off-gassing of HCl" warning residents.

EPA modeling vent + burn plan.

If everyone evacuated, plan to start ~noon

Temp ~130° last night. + staying that way this morning.

370



Bolster cracked on Trinity car. so prob can't move it.

CCPX 80179 GATX 95098 still burning on top

Cars were prepped last night.

pressure on TILX car is ~60

Garmon has modeled: 38% flash up to 50% flash

2/6/23 12 pm press conference.

Vent + Burn @ 3:30 pm today

1mi x 2mi area evacuation

"Have been in contact w/ Manufacturer" - DeWine

Red - "grave danger of death"

Orange - "severe injury incl skin"

YouTube
Video: NTSB B-roll: Train Derailment in East Pa

estimate 1-3 hours

"car could continue to polymerize" - NUS

no "sustained" readings

NUS ~~says~~ thinks there are 2 full cars + 3 1/2 full or less

Pit dug on RR Property

2/6/23

Blasts heard at 4:40pm Eastern

5pm internal call.

posted lineup this morning[?] at command center.

no atmospheric data yet

SRS-Chip. Says polymer came out of vapor space.

2 hr burn time estimate based on propane, this may burn longer.

2 burn pools totaling 150K gallons.

got video f/ 150yds away on a ridge.

Steve left message for Robert Wood & he got back to him & didn't have much to say & referred him to IH.

Steve didn't get sense of urgency f/ NUS. Lots of NUS people there but not tons of involvement

Tomorrow they hope to get in there & assess the rest of the cars.

Isobutylene car is next most concerning

2/7/23

Internal call 9:30am

Plant folks are onsite

able to approach f/ S. Side @ 8:00

↑VOC on North side - 2ppm - could be any product

Moved ^{5th} TILX + 1st OCPX

want to remove pressure plates + check for PVC

Moving all cars to staging area on North side somewhere.

Hulcher + Crane Masters are doing the moves
NS Hygiene got 1 reading of $\text{NO}_2 < 1 \text{ ppm}$
particulates sig below exposure level.

Pool fires were captive flame by 7 or 7:30 on 2/6.

Still some smoldering on some pellet cars.

Consider updating SDS to provide more quantity info around phosgene.

Going to ask NTSB about testing values

NTSB wants NS to maintain the integrity of the cars as much as possible

Haven't been able to go see westernmost car yet
Next update @ 5pm today

used foam on pellet car earlier this morning. (steve + team)
wreckers were careful w/ the cars so they didn't think they are in good shape for preserving/testing

middle car is "angry car"

2/7/23 internal call. 5pm

Have moved 4 eastern-most cars.

Should be able to see ↑ cars tomorrow morning

NTSB will have a ladder so they could get on cars. Will eventually be removing Pressure plates, but not sure when.

NTSB wants to take sets of valves off 2 cars.

Trinity agreed to ~~let them take~~ analyze them

Today EPA did airborne samples using a plane.

Early next week FRA + NTSB will collect the things they need for forensics. Asked for recommendations from us on what they should test.

Under skin remote transmitters for temp. would have been like a black box on the RC.

"shape charge"

Steve and Justin couldn't hear the explosion

- they were 1 mile away.

NTSB asked how we want to be referred to in reports. OxyVinyls

Noticeable difference in how we treat HESS compared to RR & other industry.

- no spotter when backing up, no resp protection when recommended
- just overall less focus on HESS.

Already laying rail

Next mtg 3 Central Tomorrow.

Anything else you need from the cars.

2/8/23 internal update

NTSB said they want all 5 sets of valves

Valves will be sent to Trinity Saginaw.

~~Unknown~~ GATX car valves wagon wheels gone

angle valves are just blobs.

PRV is bare.

Newer covers are steel + older ones are aluminum

according to Steve. ← What is our fleet make-up?

Railway supply institute

Paul Stancil - running the NTSB investigation locally.

[Redacted]

RC's are clean inside except for 1 that has dirt/rocks in it from dragging it to the staging area.

2/8/23

4:15 central Press conference.

Evacuation order lifted.

James Justice USEPA - all readings are normal

Kurt Koller Ohio EPA - material has entered the

waterway. Toxic to fish but still safe for

human drinking water

Sulfur run -

-Little beaver creek, Ohio river

Scott Doisch? - US -

St James Crossing, _____ Crossing

Taegart #/ State line to Pleasant?

Mayor

"Very few injuries from the recovery process so far"

VCM, Lube oil, butyl acrylate

CTEH - [Redacted]

175,000

Tank car on legal hold by NTSB so they aren't removing the pressure plate on 2/14 as planned.

Justin + Alex are qualified to climb on the RC's, Steve is not.